

Title (en)  
Syntactic foam articles and related methods

Title (de)  
Syntaktische Schaumstoffgegenstände und entsprechende Verfahren

Title (fr)  
Articles de mousse syntactique et procédés associés

Publication  
**EP 1382434 A1 20040121 (EN)**

Application  
**EP 03077104 A 20030703**

Priority  
US 19568502 A 20020715

Abstract (en)  
A method for making an article (22) of syntactic foam includes spreading a layer of a mixture including particulate resin and microballoons across a surface (18). At least a portion of the mixture is selectively heated (34) so as to cause the portion to assume a desired shape for at least part of the article. The heating is performed until the resin flows and wets the microballoons to form a solid mass. The method allows a finished part to be fabricated in a single sintering operation with little or no subsequent machining. <IMAGE>

IPC 1-7  
**B29C 67/00**; **B29C 70/66**

IPC 8 full level  
**C08J 9/24** (2006.01); **B29C 67/00** (2006.01); **B29C 67/20** (2006.01); **B29C 70/66** (2006.01); **B29K 101/10** (2006.01); **B29K 101/12** (2006.01)

CPC (source: EP US)  
**B29C 64/153** (2017.08 - EP US); **B29C 70/66** (2013.01 - EP US); **B29C 64/135** (2017.08 - EP US); **B29K 2105/165** (2013.01 - EP US); **Y10T 428/24496** (2015.01 - EP US)

Citation (search report)  
• [Y] US 5733497 A 19980331 - MCALEA KEVIN P [US], et al  
• [Y] EP 0393676 A1 19901024 - DU PONT [US]  
• [A] DE 19942071 A1 20010315 - FRAUNHOFER GES FORSCHUNG [DE]

Cited by  
CN109689253A; EP2502728A1; WO2009030194A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1382434 A1 20040121**; JP 2004066814 A 20040304; US 2004009331 A1 20040115

DOCDB simple family (application)  
**EP 03077104 A 20030703**; JP 2003196596 A 20030714; US 19568502 A 20020715